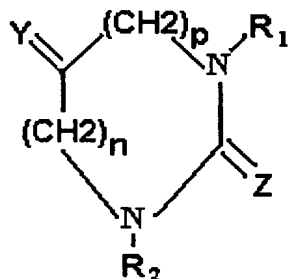


Claims

1. A method of inhibiting corrosion in an aqueous environment, the method comprising the step of adding a compound according to formula I into an aqueous environment,



(I)

wherein n is any number between 1 and 10, p is any number between 0 and 10, R₁ is one of H and an organic group, R₂ is one of H and an organic group, and Y and Z are independently one of any suitable atom and functional group.

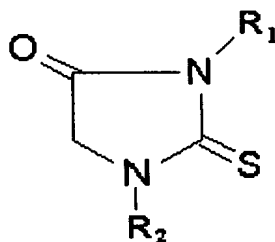
2. A method as claimed in claim 1, wherein Y is an oxygen atom.

3. A method as claimed in claim 1, wherein Z is a sulfur atom.

4. A method as claimed in claim 1, wherein p is one of 0 and 1.

5. A method as claimed in claim 1, wherein n is 1 one of 1 and 2.

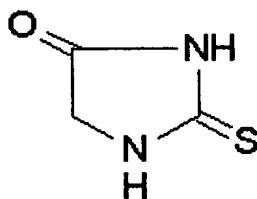
6. A method as claimed in claim 1, wherein the compound of formula I is a compound according to formula II,



(II)

wherein R₁ and R₂ are independently one of H and an organic group.

7. A method as claimed in claim 6, wherein the compound according to formula II is a compound according to formula III:



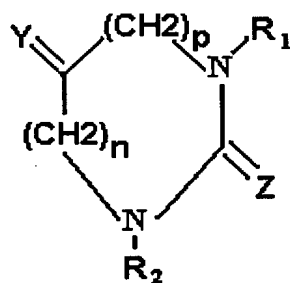
(III)

8. A method as claimed in claim 1, wherein the aqueous environment is part of an oilfield environment.

9. A method as claimed in claim 1, wherein the aqueous environment is one of a cooling water system, a water flood system, and a produced water system.

10. A method as claimed in claim 1, wherein the aqueous environment includes CO_2 , H_2S , O_2 , brine, condensed water, crude oil, gas condensate, or any combination of the said species.

11. A mixture comprising a first compound defined by formula I,



(I)

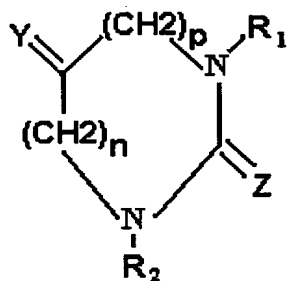
wherein n is any number between 1 and 10, p is any number between 0 and 10, R_1 is one of H and an organic group, R_2 is one of H and an organic group, and Y and Z are independently one of any suitable atom and functional group,

and a second compound comprising an oilfield corrosion inhibitor.

12. A mixture of compounds as claimed in claim 11, wherein the oilfield corrosion inhibitor is selected from the group consisting of amines, amido amines, quatazamines, imidazolines, amides, ethoxylated amines, glycols, quaternary ammonium salts, betaines, phosphate esters, sulphonates, wax inhibitor, fatty acids, polyaspartates and oligomers and polymers of said oilfield corrosion inhibitors.

13. A mixture of compounds as claimed in claim 11, further comprising a third compound selected from the group consisting of hydrate inhibitor, demulsifier and deoiler.

14. A mixture comprising a mineral oil and compound defined by formula I,



(I)

wherein n is any number between 1 and 10, p is any number between 0 and 10, R₁ is one of H and an organic group, R₂ is one of H and an organic group, and Y and Z are independently one of any suitable atom and functional group.

15. A mixture according to claim 14, wherein the mineral oil is kerosene.